



U. S. Department of Agriculture  
Forest Service  
Southeastern Area  
State & Private Forestry

# FOREST PEST MANAGEMENT

Report No. 82-3-46

Issued: 9-13-82

## AERIAL DETECTION SURVEY OF FOREST INSECT AND DISEASE ACTIVITY, FORT FREDERICA NATIONAL MONUMENT, **GEORGIA**

LAND OWNERSHIP OR SURVEY AREA: USDI, National Park Service, Fort Frederica  
National Monument

STATE: Georgia

AREA WITHIN SURVEY BOUNDARY: 92 acres

PERCENT COVERAGE: 100%

DATE: Sept. 2, 1982

AIRCRAFT: Aero Commander 500B

CREW: W.A. Carothers

### SURVEY OBJECTIVES

The objective of this aerial survey was to detect and map the location of trees being killed by forest insects or diseases. Special emphasis was placed on groups of trees with red or fading crowns indicative of southern pine beetle infestations.

### SURVEY RESULTS

One spot of red and fading trees was observed on National Park Service land. From the air, the spot appeared to contain three red topped pines and two pines with fading crowns.

### CONCLUSIONS

A ground check by National Park Service and USDA Forest Service personnel was conducted to confirm southern pine beetle as the causal agent. The ground check revealed the presence of eight trees. Five trees were infested and three trees had been vacated by southern pine beetles. This spot did not appear to be extremely active. Low numbers of emergence holes were noted in the vacated trees, no fresh attacks on green trees were present, and the zone of attacks on the infested trees was limited to approximately ten feet of vertical bark area.

Southern pine beetle activity is increasing southwide at this time. During the aerial survey, several large spots involving approximately twenty-five and ten acres respectively were observed in close proximity to National Park Service land. Several smaller spots were also observed. With extremely active spots close by, Fort Frederica may experience additional infestations

this fall. Field surveillance by National Park Service personnel should continue to aid in early detection of infested pines. Forest Pest Management will conduct a follow-up aerial survey to detect the presence of additional infestations.

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For additional information, contact

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